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NOTICE OF ALLOWANCE AND FEE(S) DUE

30593

nonprovisional

7590

02/02/2010

\$1510

HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 8910 RESTON, VA 20195

EXAMINER CHIO, TAT CHI ART UNIT PAPER NUMBER 2621

DATE MAILED: 02/02/2010

\$1810

05/03/2010

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
Ī	10/642,693	08/19/2003	Kang Soo Seo	46500-000552/US	2745	

TITLE OF INVENTION: RECORDING MEDIUM HAVING DATA STRUCTURE FOR MANAGING REPRODUCTION OF MULTIPLE REPRODUCTION PATH VIDEO DATA RECORDED THEREON AND RECORDING AND REPRODUCING METHODS AND APPARATUSES

PUBLICATION FEE DUE PREV. PAID ISSUE FEE APPLN. TYPE SMALL ENTITY ISSUE FEE DUE TOTAL FEE(S) DUE DATE DUE \$300

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

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A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

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A. Pay TOTAL FEE(S) DUE shown above, or

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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appropriate. All further cindicated unless corrected maintenance fee notification	correspondence includin d below or directed oth	g the Patent, advance of	rders and notification of a specifying a new corre	maintenance fees w	ill be	mailed to the current	correspond	dence address as
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
30593 7590 02/02/2010 HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 8910 RESTON, VA 20195			I he	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited wi States Postal Service with sufficient postage for first class mail in addressed to the Mail Stop ISSUE FEE address above, or be transmitted to the USPTO (571) 273-2885, on the date indicated by				I with the United
								(Depositor's name)
			_					(Signature)
								(Date)
APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.			CONFIRMATION NO.
10/642,693	08/19/2003		Kang Soo Seo		46	5500-000552/US		2745
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	D	DATE DUE
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EXAMINER CHIO, TAT CHI		ART UNIT	CLASS-SUBCLASS]				
		2621	386-095000	-				
 Change of correspondence address or indication of "Fee Address" (3' CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED OF ADDRESS (1.363). 			(1) the names of up to or agents OR, alternati (2) the name of a single registered attorney or 2 registered patent atto- listed, no name will be	a single firm (having as a member a ley or agent) and the names of up to ent attorneys or agents. If no name is will be printed.				
PLEASE NOTE: Unle recordation as set forth (A) NAME OF ASSIG	ess an assignee is identi i in 37 CFR 3.11. Comp iNEE	fied below, no assignee letion of this form is NO	data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY	oatent. If an assigned assignment. Y and STATE OR C	OUNT			_
Please check the appropria			•					
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
	SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no lon					
NOTE: The Issue Fee and interest as shown by the re	l Publication Fee (if requecords of the United Sta	iired) will not be accepte tes Patent and Trademark	d from anyone other than to Office.	the applicant; a regis	stered :	attorney or agent; or tl	ie assignee	or other party in
Authorized Signature _				Date				
Typed or printed name			Registration No					
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10/642,693	08/19/2003	Kang Soo Seo	46500-000552/US	2745	
30593 75	7590 02/02/2010		EXAMINER		
HARNESS, DIC	KEY & PIERCE, P.I	CHIO, TAT CHI			
P.O. BOX 8910	0.7		ART UNIT	PAPER NUMBER	
RESTON, VA 201	95		2621		
			DATE MAILED: 02/02/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 723 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 723 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Annliestien No	Annlinent(a)	
	Application No.	Applicant(s)	
Notice of Allewshility	10/642,693	SEO ET AL.	
Notice of Allowability	Examiner	Art Unit	
	TAT CHIO	2621	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	6 (OR REMAINS) CLOSED) or other appropriate com RIGHTS. This application i	in this application. If not included munication will be mailed in due cour	rse. THIS
1. This communication is responsive to <u>11/13/2009</u> .			
2. X The allowed claim(s) is/are 1,3-7,15,17-24,27-32,38,40 ar	nd 42-48.		
 3. Acknowledgment is made of a claim for foreign priority units a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Tertified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI 	e been received. e been received in Applica cuments have been received of this communication to	tion No ved in this national stage application	
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent APPLICATION (PTO-152) which given the properties of the properties			CE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.		
(a) ☐ including changes required by the Notice of Draftsper		ew (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	_•		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR			.b\ of
each sheet. Replacement sheet(s) should be labeled as such in			K) OI
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08),	6. ☐ Interview Paper N 7. ☒ Examine 8. ☒ Examine 9. ☐ Other	Informal Patent Application Summary (PTO-413), o./Mail Date 's Amendment/Comment 's Statement of Reasons for Allowan	ıce
	/Thai Tran/ Supervisory F	Patent Examiner, Art Unit 2621	

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jared B Scholz on 12/17/2009.

Claims 1, 3-7, 15, 17, 32, and 44 are amended.

Claim 1 is changed from "A recording medium storing an executable data structure for managing reproduction by a reproduction apparatus...if the field identifies that changing reproduction paths is permitted" to "An optical disk storing a data structure for managing reproduction by a reproduction apparatus...if the field identifies that changing reproduction paths is permitted."

The recording medium is claims 3-7, 15, 17, 32, and 44 are amended to the optical disk.

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance:

The present invention is directed to an optical disk storing a data structure for managing reproduction by a reproduction apparatus of video data having multiple reproduction paths. Each independent claim identifies the uniquely distinct features "the entry point map includes path change information for managing changing of reproduction paths by the reproducing apparatus", "the path change information having

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a plurality of fields, each field associated with at least one of the plurality of entry points", and "the path change information include a field for identifying whether changing reproduction paths is permitted or not in relation to the associated entry point and another field for identifying where changing reproduction path is permitted in relation to the associated entry point, the another field identifying an entry point in a current reproduction path where changing reproduction paths is permitted if the field identifies that changing reproduction paths is permitted." The closest prior arts, Kikuchi et al. (5,870,523), Tsumagari et al. (US 6,480,669 B1), and Kato et al. (US 7,477,833 B2) disclose the conventional optical disk for storing a data structure managing reproduction of video data, either singularly or in combination, fail to anticipate or render the above underlined limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TAT CHIO whose telephone number is (571)272-9563. The examiner can normally be reached on Monday - Thursday 9:00 AM-5:00 PM EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Q. Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. C. C./ Examiner, Art Unit 2621

/Thai Tran/ Supervisory Patent Examiner, Art Unit 2621